

### III. REMARKS

1. Claims 1-13 remain in the application.
2. The Abstract of the Disclosure has been amended to comply with MPEP 608.01(b).
3. Applicants respectfully submit that claims 1 and 3-13 are not anticipated by Ohba et al. (EP 0417528, "Ohba").

Ohba fails to disclose or suggest that a second signal is frequency detected to form a demodulated signal.

Ohba is directed to phase detection, not frequency detection, as shown for example, in Figure 7 and its description. It would not be possible to achieve frequency detection in the receiver disclosed in Ohba.

Other differences between the present invention and Ohba demonstrate that the arrangement of Ohba does not function as an FM demodulator:

In the present invention the signal frequency is doubled before frequency detection so that the I and Q signal components are summed in one signal. Ohba et al., on the other hand, discloses doubling the frequency within the detection function and that the detector uses separate I and Q signals.

Also, the phasing circuit is not used for demodulation in Ohba, but the phasing circuit is used for attenuating the mirror frequency or the other side band.

Further, the detector of Ohba includes a doubled clock frequency (CK), and the separate I and Q signals have been doubled in

frequency. In the present invention the frequencies of the separate I and Q signals are not doubled.

Just as the functions of the present invention and the arrangement of Ohba are quite different, the advantages of the two arrangements are also quite different. In Ohba 90 degree phasing can be made with logic circuits and a larger frequency error is allowed for the local oscillator frequency. However, the present invention relates to a FM receiver, so that it is actually not possible to compare the advantages with the solutions disclosed in Ohba since the functionality is different. But, compared to other FM receivers, the receiver according to the present invention can be implemented in a much smaller space using a smaller amount of components than prior art FM receivers.

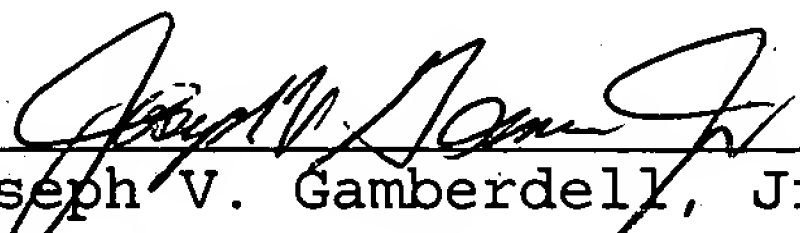
4. Applicants respectfully submit that claim 2 is patentable over the combination of Ohba and the admitted prior art.

The admitted prior art fails to supply the feature missing from Ohba, that is, that a second signal is frequency detected to form a demodulated signal. Therefore, the combination of Ohba and the admitted prior art fails to disclose all the features of the present invention, and the invention is patentable over the cited combination.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,

  
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